

Application No. 09/742,347
Amendment Dated: May 20, 2004
Reply to Office Action dated March 10, 2004

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Amendments to the Claims:

The listing of claims will replace all prior version, and listings, of the claims in the application:

Listing of Claims:

1. (Currently Amended) A system for enabling multiple types of end user devices to access ~~an Internet-based application~~ multiple Internet-based applications through the Internet, said system comprising:

- an ~~AMI~~ Application Mediation Interface (AMI) component ~~for~~ communicating with said application Internet-based applications through the Internet;

- a ~~DMI~~ Device Mediation Interface (DMI) component ~~for~~ communicating with said ~~end user~~ devices; and

- a broker module ~~for~~ communicating with said DMI component and with said AMI component,

wherein,

- said DMI component converts end data received from said broker module into a format suitable for ~~said devices~~ an end user device;

- said DMI component transmits replies to prompts from said broker module based on an end user's input into said ~~devices~~ end user device;

- said broker module emulates a sequence of events and decisions followed by said ~~an~~ Internet-based application;

- said broker module requests application data from said AMI component based on said broker module emulating said Internet-based application;

- said AMI component receives requests from said broker module and transmits replies to said requests to said broker module based on original data from said application,

- said broker module transmits end ~~date~~ data to said DMI component, said end data being based on at least one factor chosen from the group comprising:

- said broker module's emulation of said Internet-based application; and
- application data received from said AMI component.

2. (Currently Amended) A system as in claim 1 further including a session manager for managing a session between an end user device and said an Internet-based application, said

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session manager storing variables and data received from said application by said AMI
component, ~~component, said session manager communicating with said AMI component.~~

3. (Original) A system as in claim 2 wherein said session manager is internal to said AMI component.

4. (Currently Amended) A system as in claim 1 further including an authentication manager for determining whether an end user device requesting access to ~~said application~~ an Internet-based application is entitled to said access.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (New) A system as in claim 1 wherein said DMI component is connectable to said multiple types of end user devices, said DMI component for communicating with each of said end user devices which each require different data formats.

9. (New) A system as in claim 1 wherein said broker module includes multiple brokers separate from one another.

10. (New) A system as in claim 9 wherein one of said multiple brokers corresponds to one of said multiple Internet-based applications, one of said multiple brokers being for:

- requesting application data to said AMI component;
- emulating a sequence of events and decisions followed by one of said Internet-based applications; and
- transmitting end data to said DMI component.

11. (New) A method of enabling multiple types of end user devices to access multiple Internet-based applications through the Internet, said method comprising the steps of:

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- emulating a sequence of events and decisions followed by an Internet-based application at a broker module;
- requesting application data from an Application Mediation Interface (AMI) component based on an emulation of said Internet-based application by said broker module, said AMI component communicating with said Internet-based application;
- transmitting application data requested to said broker module from said Internet-based application, said application data being based on original data received from said Internet-based application by said AMI component;
- transmitting end data to a Device Mediation Interface (DMI) component, said end data being based on at least one factor chosen from the group comprising:
 - said broker module's emulation of said Internet-based application, and
 - application data received from said AMI component; and
- converting said end data at said DMI component into a format suitable for an end user device communicating with said DMI component.

12. (New) A method as in claim 11 further including the step of:

- authenticating an end user device to determine whether an end user is allowed to access said Internet-based application, said step of authenticating being accomplished by an authentication manager.

13. (New) A method as in claim 11 further including the step of:

- managing a session between an end user device and an Internet-based application by storing variables and data received from said Internet-based application by said AMI component, said step of managing being accomplished by a session manager.

14. (New) A method as in claim 11 wherein said broker module includes multiple brokers separate from one another, said steps of emulating a sequence of events and decisions, requesting application data, transmitting application data requested and transmitting end data to said DMI component are accomplished by one of said multiple brokers.

15. (New) A method for the integration of end user devices for accessing Internet-based applications, said method comprising the steps of:

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- providing multiple Internet-based applications;
- providing multiple types of end user devices for accessing the multiple Internet-based applications through the Internet;
- emulating a sequence of events and decisions followed by an Internet-based application at a broker module;
- requesting application data from an Application Mediation Interface (AMI) component based on an emulation of said Internet-based application by said broker module, said AMI component communicating with said Internet-based application;
- transmitting application data requested to said broker module from said Internet-based application, said application data being based on original data received from said Internet-based application by said AMI component;
- transmitting end data to a Device Mediation Interface (DMI) component, said end data being based on at least one factor chosen from the group comprising:
 - said broker module's emulation of said Internet-based application, and
 - application data received from said AMI component; and
- converting said end data at said DMI component into a format suitable for an end user device communicating with said DMI component.

16. (New) A method as in claim 15 wherein said multiple types of end user devices are chosen from the group comprising:

- a Wireless Application Protocol (WAP) enabled mobile device;
- a personal digital assistant (PDA) device;
- a palmtop device; and
- a public switched telephone network (PSTN) device.

17. (New) A method as in claim 15 further including the step of:

- authenticating an end user device to determine whether a corresponding end user is allowed to access said Internet-based application, said step of authenticating being accomplished by an authentication manager.

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18. (New) A method as in claim 15 further including the step of:
- managing a session between an end user device and an Internet-based application by storing variables and data received from said Internet-based application by said AMI component, said step of managing is accomplished by a session manager.
19. (New) A method as in claim 15 wherein said broker module includes multiple brokers separate from one another, said steps of emulating a sequence of events and decisions, requesting application data, transmitting application data requested and transmitting end data to said DMI component are accomplished by one of said multiple brokers.

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